

CLAIMS:

1. A terminal device for securely displaying information to a designated device, comprising:
 - a monitoring module configured to monitor a distance between the terminal device and the designated device by measuring the distance between the terminal device and the designated device;
 - a determining module configured to determine whether the monitored distance is less than a preset distance by comparing the monitored distance with the preset distance; and
 - a displaying module configured to display the information for scanning by the designated device if the determining module determines that the monitored distance is less than the preset distance and configured to decline to display the information if the determining module determines that the monitored distance is greater than the preset distance,wherein the monitoring module, the determining module, and the display module are coupled to or executed by a hardware processor within the terminal device, and wherein the displayed information comprises a payment graphic identifier representing a payment account.
2. The terminal device according to claim 1, wherein the monitoring module includes one of a laser rangefinder, an ultrasonic rangefinder, or an infrared rangefinder for monitoring a distance between the terminal device and a designated device.
3. The terminal device according to claim 1, wherein the payment graphic identifier comprises a barcode.
4. The terminal device according to claim 1, wherein the payment graphic identifier comprises a two-dimensional code.

5. A terminal device for securely displaying information for scanning by a designated device, comprising:

- an acquiring module including a camera for capturing an image of the designated device;
- a memory configured to store first information, the first information being pre-stored in the memory and including one or more images showing the designated device;
- a determining module configured to determine whether the captured image matches with any of the one or more images by comparing the captured image with the one or more images;
- and
- a displaying module configured to display second information to the designated device for scanning by a designated device if the determining module determines that the captured image matches with at least one of the one or more images and configured to decline to display the second information if the determining module determines that the captured image does not match with any of the one or more images,

wherein the acquiring module, the determining module, and the displaying module are coupled to or executed by a hardware processor within the terminal device, and wherein the displayed information comprises a payment graphic identifier representing a payment account.

6. The terminal device according to claim 5, wherein the designated device comprises a scanning device; and

the acquiring module is configured to identify a scanning device type based on the captured image if the determining module determines that the captured image matches with at least one of the one or more images of the pre-stored first information.

7. A method for securely displaying information on a terminal device, comprising:

starting, by the terminal device, an information display function for displaying the information to a designated device;

monitoring, by the terminal device, a distance between the terminal device and the designated device by measuring the distance between the terminal device and the designated device;

determining, by the terminal device, whether the monitored distance is less than a preset distance by comparing the monitored distance with the preset distance;

after starting the information display function, displaying on the terminal device the information for scanning by the designated device in response to a determination that the monitored distance is less than the preset distance; and

after starting the information display function, declining to display the information on the terminal device in response to a determination that the monitored distance is greater than the preset distance,

wherein the displayed information comprises a payment graphic identifier representing a payment account.

8. The method according to claim 7, wherein the payment graphic identifier comprises a barcode.

9. The method according to claim 7, wherein the payment graphic identifier comprises a two-dimensional code.

10. A non-transitory computer-readable storage medium that stores a set of instructions that is executable by at least one processor of a terminal device to cause the terminal device to perform a method for securely displaying information to a designated device, the

method comprising:

monitoring, by the terminal device, a distance between the terminal device and the designated device by measuring the distance between the terminal device and the designated device;

determining, by the terminal device, whether the monitored distance is less than a preset distance by comparing the monitored distance with the preset distance;

displaying on the terminal device the information for scanning by the designated device in response to a determination that the monitored distance is less than the preset distance; and

declining to display the information on the terminal device in response to a determination that the monitored distance is greater than the preset distance,

wherein the displayed information comprises a payment graphic identifier representing a payment account.

11. The non-transitory computer-readable storage medium of claim 10, wherein the payment graphic identifier comprises a barcode.

12. The non-transitory computer-readable storage medium of claim 10, wherein the payment graphic identifier comprises a two-dimensional code.

13. A non-transitory computer-readable storage medium that stores a set of instructions that is executable by at least one processor of a terminal device to cause the terminal device to perform a method for securely displaying information for scanning by a designated device, the method comprising:

capturing, by the terminal device, a first image of the designated device;

storing, on the terminal device, a second image showing the designated device before the

first image is captured;

determining whether the first image matches with the second image stored on the terminal device by comparing the first image with the second image;

displaying the information on the terminal device for scanning by the designated device if the first image is determined to match with the second image; and

declining to display the information on the terminal device if the first image is determined to not match with the second image,

wherein the displayed information comprises a payment graphic identifier representing a payment account.

14. The non-transitory computer-readable storage medium of claim 13, wherein the designated device comprises a scanning device; and

wherein the instructions are executable by the at least one processor of the terminal device to cause the terminal device to further perform identifying a scanning device type based on the first image if the first image is determined to match with the second image.

15. The non-transitory computer-readable storage medium of claim 13, wherein the payment graphic identifier comprises a barcode.

16. The non-transitory computer-readable storage medium of claim 13, wherein the payment graphic identifier comprises a two-dimensional code.